

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1009200

Luminaire Tested: S122DIP-B485D925UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009200
REPORT IS A COMBINATION OF REPORTS P984408 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D925UB40-4F0-XX-W2A-F4
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

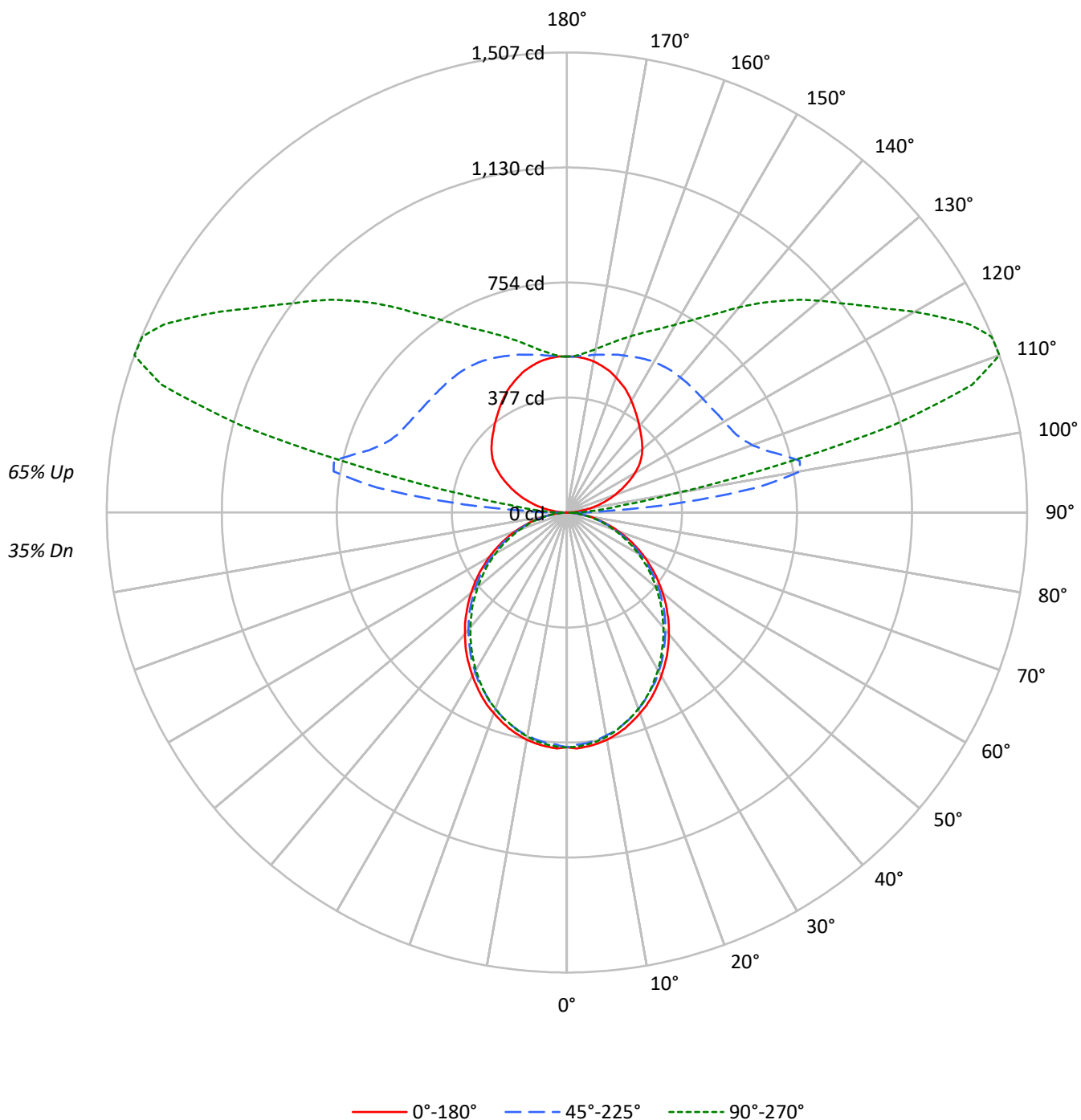
Lumens per Lamp: N/A
Luminaire Lumens: 5522.0 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43
1	95	90	86	83	85	82	79	76	66	64	62	51	50	48	38	37	36
2	86	79	73	68	78	71	66	62	58	54	51	45	43	40	33	32	30
3	78	69	62	56	71	63	57	52	51	46	43	40	37	34	29	28	26
4	72	61	53	48	65	56	49	44	45	40	36	35	32	29	26	24	22
5	66	54	47	41	59	50	43	38	40	35	31	32	28	25	24	21	19
6	61	49	41	35	55	44	38	32	36	31	27	29	25	22	21	19	17
7	56	44	36	31	50	40	33	28	33	28	24	26	22	19	20	17	15
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	15	14
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12176	12176	12176
5°	12196	11606	11524
10°	12097	11076	10857
15°	11919	10544	10156
20°	11680	9965	9493
25°	11441	9359	8829
30°	11141	8790	8133
35°	10857	8190	7451
40°	10508	7598	6805
45°	10160	7011	6172
50°	9781	6413	5514
55°	9382	5772	4892
60°	8933	5082	4245
65°	8439	4378	3564
70°	7817	3609	2878
75°	6953	2782	2222
80°	5908	1889	1430
85°	4280	878	609

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10160 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	1.3
10°-20°	203.7	3.7
20°-30°	299.3	5.4
30°-40°	347.7	6.3
40°-50°	347.2	6.3
50°-60°	302.8	5.5
60°-70°	223.8	4.1
70°-80°	126.6	2.3
80°-90°	36.7	0.7
90°-100°	207.1	3.8
100°-110°	700.1	12.7
110°-120°	735.9	13.3
120°-130°	605.2	11.0
130°-140°	486.3	8.8
140°-150°	367.4	6.7
150°-160°	258.3	4.7
160°-170°	152.1	2.8
170°-180°	49.5	0.9
0°-30°	575.4	10.4
0°-40°	923.1	16.7
0°-60°	1573.1	28.5
0°-90°	1960.3	35.5
90°-120°	1643.2	29.8
90°-150°	3102.0	56.2
90°-180°	3562.0	64.5
0°-180°	5522.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	769	769	769	769	769	
5°	769	766	758	764	763	73
15°	732	728	718	721	717	206
25°	663	657	644	646	644	305
35°	572	564	552	548	544	357
45°	465	460	449	441	438	359
55°	352	348	339	330	326	315
65°	237	233	226	219	215	235
75°	124	123	119	115	116	133
85°	30	30	29	27	26	34
90°	1	13	33	32	32	4
95°	34	84	385	145	112	36
105°	120	181	728	1301	1107	127
115°	211	267	609	1257	1457	209
125°	295	349	586	1018	1182	262
135°	346	413	579	856	980	267
145°	395	454	576	715	782	248
155°	449	485	559	632	657	207
165°	489	504	535	568	577	138
175°	510	510	515	521	520	48
180°	511	511	511	511	511	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	769.2	769.2	769.2	769.2	769.2
2.5°	773.7	770.0	761.8	769.2	767.7
5°	769.2	766.3	758.1	764.0	762.6
7.5°	764.0	759.6	751.5	757.4	755.9
10°	755.9	750.7	741.8	747.8	745.5
12.5°	744.8	740.4	731.5	735.2	733.7
15°	732.2	727.8	718.2	721.1	717.4
17.5°	716.7	712.3	702.6	706.3	702.6
20°	699.7	695.2	684.9	687.1	684.2
22.5°	682.7	676.0	666.4	666.4	664.9
25°	662.7	656.8	644.2	645.7	644.2
27.5°	640.5	635.3	625.7	623.5	619.8
30°	618.3	612.4	601.3	599.1	596.1
32.5°	594.7	590.2	578.4	574.0	571.0
35°	571.7	564.3	552.5	548.1	544.4
37.5°	545.8	539.2	527.4	522.2	518.5
40°	519.2	513.3	501.5	494.8	491.9
42.5°	493.3	487.4	475.6	468.2	463.7
45°	465.2	460.0	449.0	440.8	437.9
47.5°	437.9	432.7	420.8	412.7	408.3
50°	409.0	405.3	395.0	384.6	380.9
52.5°	380.9	375.7	366.1	358.0	352.8
55°	352.1	347.6	338.7	329.9	326.2
57.5°	323.2	319.5	309.9	301.0	298.1
60°	294.4	291.4	281.1	272.9	270.7
62.5°	266.3	261.1	253.7	246.3	243.3
65°	237.4	233.0	225.6	218.9	215.2
67.5°	207.8	204.1	197.5	192.3	189.3
70°	180.5	177.5	170.9	165.7	162.7
72.5°	152.4	149.4	145.7	140.5	138.3
75°	124.3	122.8	119.1	114.6	116.1
77.5°	99.1	96.2	94.7	92.5	90.2
80°	74.0	73.2	71.7	69.5	68.0
82.5°	50.3	50.3	49.6	46.6	46.6
85°	30.3	29.6	28.8	26.6	25.9
87.5°	13.3	11.8	10.4	8.1	7.4
90°	1.0	13.2	33.4	31.9	32.4
92.5°	14.7	46.7	151.3	69.8	59.9
95°	34.4	84.5	385.1	145.4	112.0
97.5°	51.1	111.5	627.8	291.8	187.6
100°	75.6	136.6	776.1	581.2	351.7
102.5°	98.2	159.2	781.0	982.4	685.7
105°	119.9	180.8	728.0	1301.2	1107.2
107.5°	143.4	202.4	678.9	1416.6	1391.1
110°	167.0	224.4	645.5	1398.0	1507.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	188.6	245.6	623.9	1334.6	1505.1
115°	211.2	266.8	609.1	1257.0	1457.0
117.5°	234.8	287.8	601.3	1182.8	1384.3
120°	256.4	308.4	594.4	1116.5	1314.5
122.5°	277.0	329.6	590.4	1065.0	1241.8
125°	294.7	348.8	585.5	1018.3	1181.9
127.5°	309.5	367.0	582.6	978.5	1125.9
130°	322.2	383.2	580.6	938.2	1079.7
132.5°	334.0	398.8	579.6	896.4	1031.6
135°	345.8	412.6	578.7	855.7	979.5
137.5°	356.6	424.4	578.7	814.4	929.4
140°	369.4	435.2	577.7	778.1	877.3
142.5°	382.2	444.1	577.7	743.2	825.3
145°	394.9	453.9	575.7	714.8	782.0
147.5°	408.7	461.8	572.8	689.7	743.7
150°	422.5	469.6	569.8	668.0	710.3
152.5°	436.2	477.4	564.9	649.9	681.8
155°	449.0	484.8	559.0	632.2	657.3
157.5°	459.8	490.7	553.1	615.5	635.6
160°	470.6	496.6	547.2	598.8	615.0
162.5°	481.4	501.0	542.3	583.0	595.4
165°	489.3	504.0	535.4	567.8	576.7
167.5°	496.1	507.0	529.5	554.1	559.0
170°	503.0	508.4	524.6	541.3	543.3
172.5°	506.9	509.9	518.7	530.0	530.5
175°	509.9	510.4	514.8	521.2	519.7
177.5°	511.9	510.9	510.9	514.8	511.9
180°	510.9	510.9	510.9	510.9	510.9

(END OF REPORT)